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Technology Center 2600   **PATENT**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Itoh *et al.*

Application No.:   09/748,542   Group Art Unit:

Filed: December 26, 2000

For: METHOD, APPARATUS, COMPUTER SYSTEM AND STORAGE MEDIUM FOR
        SPEECH RECOGNITION

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Washington, D.C. 20231

Sir:

In accordance with the duty of disclosure under 37 C.F.R. §1.56, Applicants

hereby notify the U.S. Patent and Trademark Office of the documents which are listed

on the attached Form PTO-1449 and which the Examiner may deem relevant to

patentability of the claims of the above-identified application.

The present Information Disclosure Statement is being filed (1) no later than

three months from the application's filing date, or (2) before the mailing date of the first

Office Action on the merits and, therefore, no certification under 37 C.F.R. §1.97(e) or

fee under 37 C.F.R. §1.17(p) is required.

The reference *Proceeding of the Fall Meeting of the Acoustical Society of Japan,*

A Study on Broadcast News Transcription, (1989) by Nishimura and Ito, cited on Form

P1007317;1

INFORMATION DISCLOSURE STATEMENT

PTO-1449 is being submitted in Japanese. In accordance with Applicants' duty of disclosure, the reference generally discloses a concept called "transparent word" for processing disfluencies using an n-gram model. The transparent word concept calculates probabilities by ignoring disfluencies, either during learning or recognition. The model assumes that disfluencies appear between non-disfluency words with an equal probability.

In accordance with Applicants' duty of disclosure, Applicants also note that the remaining four references cited on Form PTO-1449 contain abstracts written in the English language.

The submission of the listed documents are not intended as an admission that such documents constitute prior art against the claims of the present application. Applicants do not waive any right to take any action that would be appropriate to antedate or otherwise remove the listed document as a competent reference against the claims of the present application.

INFORMATION DISCLOSURE STATEMENT

Applicants respectfully request that the listed documents be considered by the

Examiner and be made of record in the present application and that an initialed copy of

Form PTO-1449 be returned in accordance with MPEP §609.

Respectfully submitted,

Date: 3/13/01

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Docket No. 6169-169

Form PTO-1449	U.S. DEPARTMENT OF COMMERCE	ATTY. DOCKET NO.	APPLICATION NO.
(Rev. 2-88)	PATENT AND TRADEMARK OFFICE	6169-169	09/ 748,542

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

APPLICANT
Itoh, et al.

FILING DATE	GROUP
December 26, 2000	

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U.S. PATENT DOCUMENTS

EXAMINER'S INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

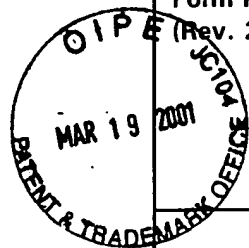|			
			L.R. Bahl, et al., IEEE Trans., *A Maximum Likelihood Approach to Continuous Speech Recognition*, Vol. PAMI-5, No. 2, (March 1983)
			Nishimura, et al., *Information Processing Society of Japan, Word-Based Approach to Large-Vocabulary Continuous Speech Recognition for Japanese*, Vol. 40, No. 4, (April 1999)
			Kai et al., *Information Processing Society of Japan, Dealing with Out-of-Vacabulary Words and Filled Pauses in Word N-Gram Based Speech Recognition System*, Vol. 40, No. 4, (April 1999)
			Nishimura, et al., *Proceeding of the Fall Meeting of the Acoustical Society of Japan, A Study on Broadcast News Transcription*, (1998)
			A. Stolcke, et al., *Proc. of ICASSP96, Statistical Language Modeling for Speech Disfluencies*

EXAMINER	DATE CONSIDERED

* EXAMINER: Initial if a citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.